

~~with the results being buffered prior to being combined~~  
~~to form the transmitted signal. The transmission signal~~  
~~generated by combining the previously amplified analog~~  
~~subcarrier signals can be subjected to further~~  
~~amplification prior to transmission. Amplifiers with~~  
~~less dynamic range can normally be used to amplify~~  
~~individual subcarrier signals than is required to amplify~~  
~~a transmission signal generated from individual~~  
~~subcarrier signals which have not been subject to power~~  
~~amplification. Filters may be used to compensate for or~~  
~~correct signal distortions.~~ A cyclic prefix incorporated  
into subcarrier signals is designed to be of sufficient  
length that it covers delays introduced by filters in the  
individual subcarrier signal paths and common signal  
path. The incorporated cyclic prefix has a minimum  
duration determined as a function of several group signal  
delays including a common signal path group signal delay  
and a communications channel group signal delay.